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STATE		PLICANT	First Named Inventor	Cudmore, Julian	
				Art Unit	
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Sheet	1	of	3	Attorney Docket Number	102.0026

			U.S. PATI	ENT DOCUMENTS	
Examiner Initials		Document Number  Number - Kind Code <sup>2</sup> (if known	•	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Substitute for form 1449B/PTO		Complete if Known			
			OL COLUDE	Application Number	
INFOF	FORMATION DISCLOSUR  [ATEMENT BY APPLICAN]  (use as many sheets as necessary)	CLUSURE	Filing Date	February 3, 2004	
LSTATI	EMENTE	RY A	PPI ICANT	First Named Inventor	Cudmore, Julian
יותיטן		, , <u>,</u>		Group Art Unit	
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Sheet 2 of 3				Attorney Docket Number	102.0026

Examiner			
initials	Cite No.1	include name of the author (in CAPITAL LETTERS), title of the erticle (when appropriate), title of the lem (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), outlisher, city and/or country where outlished.	Τ2
Me	-	R. STINSON, "The Use of Systems Analysis in the Design of a Gas-Lift System", SPE 17584, November 1,1988, 6 pp., Tianjin, China	
		W.J.G.J DER KINDEREN, et al., "Real-Time Artificial Lift Optimization", SPE 49463, October 11, 1998, 10 pp., Abu Dhabi, U.A.E.	
		Y.C. CHIA, et al., "Gas Lift Optimization Efforts and Challenges", SPE 57313, October 25, 1999, 9 pp., Kuata Lumpur, Malaysia	
		M.L. LITVAK, et al., "Prudhoe Bay E-Fleid Production Optimization System Based on Integrated Reservoir and Facility Simulation", SPE 77843, September 29, 2002, 11 pp., San Antonio, Texas, U.S.A	
	] <u>-</u>	P. WANG, et al., "Optimization of Production Operations in Petroleum Fields", SPE 77658, September 29, 2002, 12 pp., San Antonio, Texas, U.S.A	
		A.L. PODIO, et al., "Advances in Surface Measurements for Optimization of Artificial Lift Operations", SPE 77895, October 8, 2002, 11 pp., Melboums, Australia	
		D. REEVES, et al., "Gas Lift Automation: Real Time Data to Desktop for Optimizing an Offshore GOM Platform", SPE 84166, October 5, 2003, 13 pp., Denver, Colorado, U.S.A	
		BIOCOMP SYSTEMS, INC., "IntelliDynamics Gas Lift", July 31, 2003, 2 pp. Optimization	
		EPRODUCTION SOLUTIONS, "Gas Lift Optimization Solution", January 30, 2004, 7 pp.	
		JPT ONLINE, "Gas Lift Automation: Real-Time Data to Desktop", November 2003, 4 pp.	
M		WINGLUE, "Gas-Lift Surveillance Program", no date, 2pp.	

Date Examiner Considered Signature

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STATI	EMENT BY	/ Δ	PPLICANT	First Named Inventor	Cudmore, Julian	
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Sheet	3	of	3	Attorney Docket Number	102.0026	

Examiner Initials	Cite No.1	OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the lem (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, ally and/or country where published.	T2
M		PROMORE, A CORE LABORATORIES COMPANY, "Gas Lift Remote Monitoring and Control System", no date, 1 p.	
		A.R. ALMEIDA, et al., "Continuous gas lift performance analysis", World Oil, September 1998, 6 pp.	
		A.A. HADY, "The Use of a Multiphase Flow Meter to Optimize Gas Lift Well Operations", International Business Communications, March 18, 1998, 7 pp.	-
10	J	L HESTER, "Advances in Automation Improve Gas Lift Oil Production", Emerson Process Management, February 27, 2003, 6 pp.	
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